PTO/SB/05 (06-03)

Approved for use through 07/31/2003. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

## Attorney Docket No. SON-1426/DIV **UTILITY** First Inventor | Shingo Kadomura

- Statement Regarding Fed sponsored R & D - Reference to sequence island, a table, or a computer program listing appendix - Background of the invention - Brief Summary of the Invention - Brief Summa	PATENT APPLICATION		ALUMINUM NITRIDE/ALUMINUM BASE								
Express Mail Label No.   APPLICATION ELEMENTS   ADDRESS TO:	TRANSMITTAL	Title									
APPLICATION ELEMENTS  See MPEP chapter 600 concerning utility patent application contents.  1. X Fee Transmittal Form (e.g., PTO/SB/17) 2. Applicant claims small entity status. 3. X Specification or dropted and an original, and a utilization for the processing) 3. X Specification forms from the functional original process or the following fire this process or the status of the bedderer or source fire function or the function of the function of the function or a computer frogram lighting appeals.  4. X Drawing(s) (35 U.S.C. 113) [Total Sheets 4] 5. Oath or Declaration  5. Oath or Declaration  6. Wewly executed (original or copy)  8. Left Constitution (Total Sheets 3)  8. Jecument Readible Form (CRF)  9. Assignment Papers (cover sheet & document(s))  9. Assignment Papers (cover sheet & document(s))  10. 37 CFR 3.7(S) Statement  11. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specifical form or prior application of the Data Sheet S. T.F6  18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specifical form of the continuation—in-part (CIP)  19. Continuation Data Sheet S. Sample and the first sentence of the specifical form of the continuation—in-part (CIP)  19. Continuation formation: Examiner  19. Continuation Papers (CIP) Statement (SIP) (First Sheet)  19. Continuation Request under 35 U.S.C. 122 (D)(2)(B)(I). Applicant must attach form PTO/SB/35 or its equivalent.  19. Continuation Request under 35 U.S.C. 122 (D)(2)(B)(I). Applicant must attach form pto repulsion formation: Examiner  19. Correspondence address below	(Only for new nonprovisional applications under 37 CFR 1.53(b))	L	<del></del>								
ADDRESS TO:   ADDRESS TO:		Expre	ss Mail Label No.								
See MFEP chapter 600 concerning utility patent application contents.   X   Fee Transmittal Form (e.g., PTO/SB/17)   Total Pages   23   1	APPLICATION ELEMENTS		ADDRESS TO:								
Computer Program (Appendix)   Computer Program (Appendix)	See MPEP chapter 600 concerning utility patent application co.	ntents.	ADDRESS TO:								
2. Sep 37 CFR 1.27. 3. X Specification    (Irotal Pages											
3. X   Specification   Total Pages   23   1   2   Computer Readable Form (CRF)      Considered arrangement set forth bolow)   - Descriptive title of the investion   - Description of the Description of the Drawings (if filed)   - Desc	Applicant claims small entity status.		Northweller and the Anthra Anthra Commence Colombiation								
Conference arrangement set forth below	See 37 CFR 1.27.	<del>, ,</del>	(if applicable, all necessary)								
- Descriptive title of the invention - Cross Reference to Related Applications - Statement Reparting Fed sponsored R & D - Reference to sequence listing, a table, or a computer program Issing appendix - Become of the fed memon - Brief Description of the Drawings (if field) - Detailed Description - Claim(s) - Detailed Description - Claim(s) - Description of the Discosure - ACCOMPANYING APPLICATIONS PARTS  9.		31									
Statement Regarding Fed sponsored R & D Reference to sequence issing, a table, or a computer program issing a patie, or a computer program issing appendix Beckground of the invention Dear Description of the Drawings (if filed) Dear Description of the Drawings (if filed) Dear Dear Dear Dear Dear Dear Dear Dear	- Descriptive title of the invention										
or a computer program listing appendix Background of the invention Brief Summary of the Invention Caim(s) Ca	<ul> <li>Statement Regarding Fed sponsored R &amp; D</li> </ul>	- Statement Regarding Fed sponsored R & D									
- Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Cairn(s) - Cairn(s) - Abstract of the Discours  4. X Drawing(s) (35 U.S.C. 113)	or a computer program listing appendix										
- Detailed Description - Claim(s) - Abstract of the Disclosure - Copies of IDS - Capies o	- Brief Summary of the Invention										
Abstract of the Disclosure 4. X Drawing(s) (35 U.S.C. 113)	- Detailed Description										
5. Oath or Declaration [Total Sheets 3 ] 1  12. X Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations  a. Newly executed (original or copy)  b. X Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed)  i. DELETION OF INVENTOR(S) (Singed statement attached deleting inventorisy named in the prior application, see 37 CFR 1.63(d)/2) and 1.33(b).  6. Application Data Sheet. See 37 CFR 1.76  18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specifical following the title, or in an Application Data Sheet under 37 CFR 1.76:  Continuation X Divisional Continuation-in-part (CIP) of prior application No.: 09/187,226  Prior application information: Examiner Kuang Y. Lin Art Unit: 1725  For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied un Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.  19. CORRESPONDENCE ADDRESS  X Customer Number: 22353 OR Correspondence address below Raddress Lion Building 1233 20 <sup>th</sup> Street, NW  City Washington State DC Zip Code 20036  Country USA Telephone (202) 955-3750 Fax (202) 955-3751											
a. Newly executed (original or copy)  b. X Copy from a prior application (37 CFR 1.63(d)) (for conlinuation/divisional with Box 18 completed)  i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).  6. Application Data Sheet. See 37 CFR 1.76  18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specifical following the title, or in an Application Data Sheet under 37 CFR 1.76:  Continuation X Divisional Continuation-in-part (CIP) of prior application No.: 09/187,226  Prior application information: Examiner  Kuang Y. Lin Art Unit: 1725  For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, and is hereby incorporated by reference. The incorporation can only be refled upon when a portion has been inadvertently omitted from the submitted application parts.  19. CORRESPONDENCE ADDRESS  X Customer Number: 22353 OR Correspondence address below  Ronald P. Kananen Rader, Fishman & Grauer PLLC  City Washington State DC Zip Code 20036  Country USA Telephone (202) 955-3750 Fax (202) 955-3751	4. X Drawing(s) (35 U.S.C. 113) [Total Sheets	41									
b. X Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed)  i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) ramed in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).  6. Application Data Sheet. See 37 CFR 1.76  18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specifical following the title, or in an Application Data Sheet under 37 CFR 1.76:  Continuation X Divisional Continuation-in-part (CIP) of prior application, from which an oath or declaration is supplied un Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.  19. CORRESPONDENCE ADDRESS  X Customer Number:  Ronald P. Kananen Rader, Fishman & Grauer PLLC  Lion Building 1233 20 <sup>th</sup> Street, NW  City Washington State DC Zip Code 20036  Fax (202) 955-3751	5. Oath or Declaration [Total Sheets	3 1									
CShould be specifically itemized   CShould be specifically itemized	a. Newly executed (original or copy)										
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).   16.   Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Application Data Sheet. See 37 CFR 1.76   17.   Other:											
Signed statement attached celeming inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).  16. Application Data Sheet. See 37 CFR 1.76  17. Other:  18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specifical following the title, or in an Application Data Sheet under 37 CFR 1.78:  Continuation		15 Certified Copy of Priority Document(s)									
Application Data Sheet. See 37 CFR 1.76  18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specifical following the title, or in an Application Data Sheet under 37 CFR 1.76:  Continuation X Divisional Continuation-in-part (CIP) of prior application No.: 09/187,226  Prior application information: Examiner Kuang Y. Lin Art Unit: 1725  For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied un Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.  19. CORRESPONDENCE ADDRESS  X Customer Number: 22353 OR Correspondence address below Rader, Fishman & Grauer PLLC  Address Lion Building 1233 20th Street, NW  City Washington State DC Zip Code 20036  Country USA Telephone (202) 955-3750 Fax (202) 955-3751	inventor(s) named in the prior application,	Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i).									
Application Data Sheet. See 37 CFR 1.76  18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specifical following the title, or in an Application Data Sheet under 37 CFR 1.76:  Continuation  Continuation  Continuation-in-part (CIP) of prior application No.:  09/187,226  Prior application information: Examiner  Kuang Y. Lin  Art Unit:  1725  For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied un Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.  19. CORRESPONDENCE ADDRESS  X Customer Number:  22353  OR  Correspondence address below  Ronald P. Kananen  Rader, Fishman & Grauer PLLC  Address  Lion Building  1233 20 <sup>th</sup> Street, NW  City  Washington  State  DC  Zip Code  Zip Code  20036  Country  USA  Telephone  (202) 955-3750  Fax (202) 955-3751	see 37 CFR 1.63(d)(2) and 1.33(b).		Applicant must attach form PTO/SB/35 or its equivalent.								
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specifical following the title, or in an Application Data Sheet under 37 CFR 1.76:  Continuation	<b> </b>										
following the title, or in an Application Data Sheet under 37 CFR 1.76:  Continuation X Divisional Continuation-in-part (CIP) of prior application No.: 09/187,226  Prior application information: Examiner Kuang Y. Lin Art Unit: 1725  For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied un Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.  19. CORRESPONDENCE ADDRESS  X Customer Number: 22353 OR Correspondence address below Rader, Fishman & Grauer PLLC  Address Lion Building 1233 20 <sup>th</sup> Street, NW  City Washington State DC Zip Code 20036  Country USA Telephone (202) 955-3750 Fax (202) 955-3751		and sunn	ly the requisite information below and in the first sentence of the specification								
Prior application information: Examiner Kuang Y. Lin Art Unit: 1725  For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied un Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.  19. CORRESPONDENCE ADDRESS  X Customer Number: 22353 OR Correspondence address below Rader, Fishman & Grauer PLLC  Address Lion Building 1233 20 <sup>th</sup> Street, NW  City Washington State DC Zip Code 20036  Country USA Telephone (202) 955-3750 Fax (202) 955-3751											
For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied un Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.  19. CORRESPONDENCE ADDRESS    X   Customer Number:   22353   OR   Correspondence address below											
Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.  19. CORRESPONDENCE ADDRESS    X   Customer Number:   22353   OR   Correspondence address below											
Telephone (202) 955-3750    X   Customer Number:   22353   OR     Correspondence address below	Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.										
X Customer Number:  22353  OR Correspondence address below  Ronald P. Kananen Rader, Fishman & Grauer PLLC  Address Lion Building 1233 20 <sup>th</sup> Street, NW  City Washington  State DC  Zip Code 20036  Country  USA  Telephone (202) 955-3750  Fax (202) 955-3751											
Ronald P. Kananen Rader, Fishman & Grauer PLLC  Address Lion Building 1233 20 <sup>th</sup> Street, NW  City Washington State DC Zip Code 20036  Country USA Telephone (202) 955-3750 Fax (202) 955-3751											
Rader, Fishman & Grauer PLLC           Address         Lion Building 1233 20 <sup>th</sup> Street, NW           City         Washington         State         DC         Zip Code         20036           Country         USA         Telephone         (202) 955-3750         Fax         (202) 955-3751			COTTES POR CONTES POR CONTES DE LO COTTES POR CONTES DE LO CONTES DE								
Lion Building   1233 20 <sup>th</sup> Street, NW		^									
1233 20 <sup>th</sup> Street, NW	Lion Building	<u> </u>									
City         Washington         State         DC         Zip Code         20036           Country         USA         Telephone         (202) 955-3750         Fax         (202) 955-3751	I Elon Dullallia										
		te	<del> </del>								
Name (Print/Type) Ronald R. Karianen Registration No. (Attorney/Agent) 24,104	Country USA Tell	ephone	(202) 955-3750   Fax   (202) 955-3751								
	Name (Print/Type) Ronald R Karanen		Registration No. (Attorney/Agent) 24,104								
Signature Date August 27, 2003	Signature	Date August 27, 2003									



PTO/SB/17 (05-03)
Approved for use through 04/30/2003. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2003			Complet if Known							
			ation	Numbe	To be assign	To be assigned				
			Date		Concurrently	Concurrently Herewith				
· · · · · · · · · · · · · · · · · ·	- 1	First Named Inventor			or Shingo Kadoi	Shingo Kadomura				
Effective 01/01/2003, Patent fees are subject to annual revision.	Examiner Name				Kuang Y. Lin					
Applicant claims small entity status. See 37 CFR 1.27	ı				1725	<del></del>				
TOTAL AMOUNT OF PAYMENT (\$) 750.00			ey Doo	kat Na	SON-1426/DI					
		Alloni	ey bu							
METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)									
Check Credit Money Other None  X Deposit Account	ADDITIONAL FEES									
Deposit		Entity	Small	Entity						
Account Number 18-0013	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	on	Fee Paid			
Deposit	1051	130	2051	65	urcharge – late filing fee or o	oath				
Account Name	1052	50	2052	25	-	arge – late provisional filing fee or cover				
The Director is hereby authorized to: (check all that apply)				23	heet.	et.				
X Charge fee(s) indicated below X Credit any overpayments	1053	130	1053	130	lon-English specification	-English specification				
Charge any additional fee(s) during the pendency of this application	1812	2,520	1812	2,520	* '	g a request for ex parte reexamination				
Charge fee(s) indicated below, except for the filing fee	1804	920*	1804	920*	lequesting publication of SIR xaminer action	·	]			
to the above-identified deposit account.	1805	1,840*	1805	1,840*	lequesting publication of SIR examiner action	ng publication of SIR after				
FEE CALCULATION	1251	110	2251	55	xaminer action xtension for reply within first	month				
1. BASIC FILING FEE	1252	410	2252	205	xtension for reply within seco	ond month				
Large Entity Small Entity	1253	930	2253	465	xtension for reply within third	d month				
Fee Fee Fee Fee Fee Description Fee Paid  Code (\$) Code (\$)	1254	1,450	2254	725	xtension for reply within four	th month				
1001 750 2001 375 Utility filing fee 750.00	1255	1,970	2255	985	xtension for reply within fifth	on for reply within fifth month				
1002 330 2002 165 Design filing fee	1401	320	2401	160	otice of Appeal	ce of Appeal				
1003 520 2003 260 Plant filing fee	1402	320	2402	160	Filing a brief in support of an appeal					
1004 750 2004 375 Reissue filing fee	1403	280	2403	140	Request for oral hearing					
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding					
SUBTOTAL (1) (\$) 750.00	1452	110	2452	55						
```Li	1453	1,300	2453		tition to revive - unintentional					
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE  Extra Fee from	1501	1,300	2501		tility issue fee (or reissue)					
Ctaims below Fee Paid	1502	470	2502		esign issue fee					
Total Claims 3 -20 = 0 x = 0	1503	630	2503		lant issue fee	_				
Claims	1460	130	1460		etitions to the Commissioner					
Multiple Dependent =	1807	50	1807	50	rocessing fee under 37 CFR	l 1.17(q)				
Large Entity Small Entity	1806	180	1806	180	ubmission of Information Dis					
Fee Fee Fee Fee Code (\$) Fee Description	8021	40	8021	40	ecording each patent assign roperty (times number of prop					
1202 18 2202 9 Claims in excess of 20	1809	750	2809		ng a submission after final rejection					
1201 84 2201 42 Independent claims in excess of 3	1810	750	2810		7 CFR 1.129(a)) or each additional invention to be					
1203 280 2203 140 Multiple dependent claim, if not paid 1204 84 2204 42 ** Reissue independent claims	1801	750	2801		examined (37CFR 1.129(b)) Request for Continued Examination (RCE)					
over original patent	1802	900 1802 900 Request for expedited examination								
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent		of a design application								
		ther fee (specify)								
**or number previously paid, if greater; For Reissues, see above	-Kedu	duced by Basic Filing Fee Paid SUBTOTAL (3) (\$)								
SUBMITTED BY	Registr	ation No		104		Complete (if applicable)				
Name (Print/Type) Ronald P. Kananen	(Attorne	y/Agent) 24,104 Telephone (202) 955-3750				_				
Signature					Date Au	ugust 27, 200	)3			